

Water-Data Report 2011

103367592 Eagle Rock Creek Near Stateline, NV

Truckee Basin
Lake Tahoe Subbasin

LOCATION.--Lat 38°57'24", long 119°55'36" referenced to North American Datum of 1927, in NE ¼ SW ¼ sec.26, T.13 N., R.18 E., Douglas County, NV, Hydrologic Unit 16050101, on right bank, 0.2 mi upstream from confluence of Edgewood Creek, and 0.8 mi east of Stateline.

DRAINAGE AREA.--0.63 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Nov. 1989 to Sep. 2000, Aug. 2002 to Mar. 2011 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 6,480 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4.3 ft³/s, Dec. 31 2005, gage height, 6.02 ft; maximum gage height, 6.22 ft, Dec. 17, 2002, backwater from ice; minimum daily, 0.19 ft³/s, Sep. 16-25, 1991.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge period Oct. 1 to Mar. 31, 2.4 ft³/s, Oct. 5, maximum gage height, 5.48 ft, backwater from snow and ice; minimum daily discharge, 0.57 ft³/s, Nov. 10, 11, 12, 13.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.75	0.70	0.74	1.0	1.0	0.78	---	---	---	---	---	---
2	0.80	0.70	0.82	0.98	e1.0	0.80	---	---	---	---	---	---
3	0.87	0.70	0.85	0.93	1.0	0.77	---	---	---	---	---	---
4	0.88	0.70	0.85	0.95	0.94	0.77	---	---	---	---	---	---
5	1.3	0.70	0.86	1.0	0.94	0.77	---	---	---	---	---	---
6	0.85	0.64	0.86	1.1	1.0	0.77	---	---	---	---	---	---
7	0.70	0.67	0.85	1.1	1.0	0.72	---	---	---	---	---	---
8	0.63	0.69	0.91	1.1	0.99	0.70	---	---	---	---	---	---
9	0.63	0.61	0.94	1.1	0.94	0.74	---	---	---	---	---	---
10	0.63	0.57	1.0	1.1	0.95	0.78	---	---	---	---	---	---
11	0.64	0.57	1.0	1.1	0.93	0.80	---	---	---	---	---	---
12	0.63	0.57	0.98	1.1	0.97	0.77	---	---	---	---	---	---
13	0.65	0.57	0.93	1.1	1.0	0.78	---	---	---	---	---	---
14	0.63	0.62	e0.96	1.1	1.1	0.90	---	---	---	---	---	---
15	0.64	0.63	0.97	1.0	1.1	1.00	---	---	---	---	---	---
16	0.67	0.60	1.0	1.1	e1.0	1.3	---	---	---	---	---	---
17	0.71	0.68	1.0	1.1	1.0	0.99	---	---	---	---	---	---
18	0.70	0.70	1.1	1.0	0.90	0.89	---	---	---	---	---	---
19	0.70	0.71	1.2	1.0	0.86	0.85	---	---	---	---	---	---
20	0.70	e0.71	1.0	1.0	0.85	0.85	---	---	---	---	---	---
21	0.70	e0.70	0.95	1.0	0.85	0.79	---	---	---	---	---	---
22	0.70	0.70	0.93	1.0	0.77	0.77	---	---	---	---	---	---
23	0.70	0.70	0.93	1.0	0.77	0.77	---	---	---	---	---	---
24	1.2	0.70	0.91	1.0	0.77	0.77	---	---	---	---	---	---
25	0.79	0.69	0.93	0.96	0.77	0.77	---	---	---	---	---	---
26	0.70	0.70	0.92	0.93	0.77	0.77	---	---	---	---	---	---
27	0.70	0.70	0.85	0.93	0.77	0.77	---	---	---	---	---	---
28	0.70	0.70	0.89	1.0	0.77	0.75	---	---	---	---	---	---
29	0.70	0.69	0.98	0.94	---	0.78	---	---	---	---	---	---
30	0.70	0.70	1.0	0.94	---	0.86	---	---	---	---	---	---
31	0.70	---	0.98	0.97	---	0.96	---	---	---	---	---	---
Total	23.00	20.02	29.09	31.63	25.71	25.49	---	---	---	---	---	---
Mean	0.74	0.67	0.94	1.02	0.92	0.82	---	---	---	---	---	---
Max	1.3	0.71	1.2	1.1	1.1	1.3	---	---	---	---	---	---
Min	0.63	0.57	0.74	0.93	0.77	0.70	---	---	---	---	---	---
Ac-ft	46	40	58	63	51	51	---	---	---	---	---	---

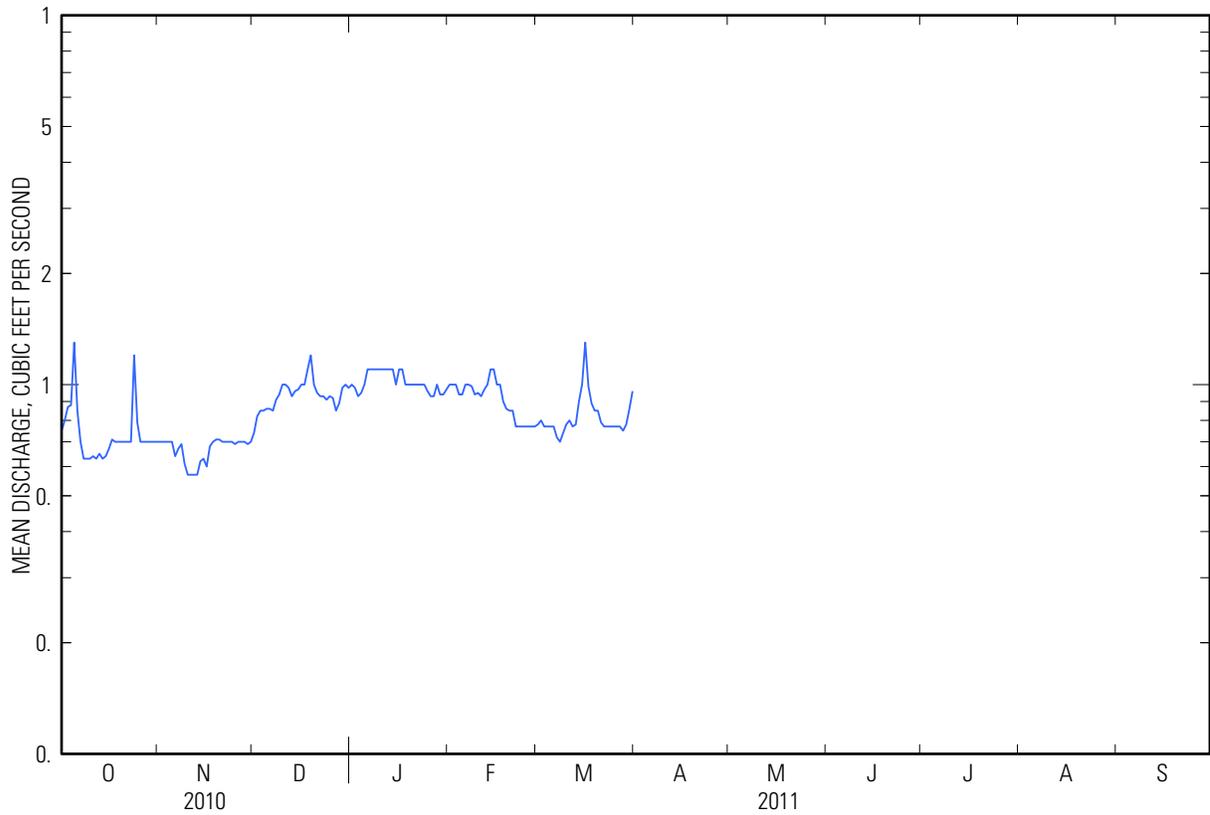
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.86	0.84	0.82	0.88	0.87	0.92	1.01	0.97	0.80	0.73	0.73	0.77
Max	1.97	1.83	1.59	1.72	1.59	1.57	1.78	1.92	1.61	1.53	1.59	1.71
(WY)	(2007)	(2007)	(2007)	(1997)	(2007)	(2007)	(2006)	(2006)	(2006)	(2006)	(2006)	(2006)
Min	0.26	0.27	0.29	0.26	0.29	0.39	0.37	0.29	0.25	0.25	0.26	0.21
(WY)	(1993)	(1993)	(1993)	(1992)	(1993)	(1991)	(1992)	(1992)	(1992)	(1993)	(1994)	(1991)

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SUMMARY STATISTICS

	Calendar Year 2010	Water Years 1990 - 2011
Annual total	268.61	
Annual mean	0.74	0.87
Highest annual mean		1.43 2006
Lowest annual mean		0.31 1992
Highest daily mean	1.5 May 4	3.6 Jan 2, 1997
Lowest daily mean	0.49 Aug 16	0.19 Sep 16, 1991
Annual seven-day minimum	0.52 Aug 15	0.19 Sep 16, 1991
Maximum peak flow		4.3 Dec 31, 2005
Maximum peak stage		6.22 Dec 17, 2002
Annual runoff (ac-ft)	533	630
10 percent exceeds	1.0	1.5
50 percent exceeds	0.70	0.80
90 percent exceeds	0.55	0.30



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PERIOD OF RECORD.--Water years 1990 to Mar. 2011 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Mar. to Sep. 2003, discontinued.

INSTRUMENTATION.--Water temperature recorder Mar. to Sep. 2003, two times per hour.

REMARKS.--In Nov. 1989, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Nutrient samples were analyzed by the University of California, Davis, Tahoe Research Group. Quality assurance samples associated with the entire Lake Tahoe Interagency Monitoring Program are listed under station numbers 103366769999 and 103367309999. The original hydrazine method used to determine nitrate plus nitrite concentrations (parameters 00631 and 00630) was found to have interferences caused by calcium and magnesium in stream water samples. The nitrate plus nitrite concentrations under parameters 99911 and 99910 are based on a laboratory method that uses pyrophosphate to remove interferences caused by calcium and magnesium. This method has replaced the original hydrazine method as of December 2008.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 14.0°C, Jul. 21, 2003; minimum, freezing point on several days in Mar. and Apr, 2003.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 1 of 3

[% , percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Medium name	Sample type	Discharge, instantaneous, ft ³ /s (00061)	Temperature, air, °C (00020)	Temperature, water, °C (00010)	Specific conductance, water, unfiltered, μS/cm at 25 °C (00095)	pH, water, unfiltered, field, standard units (00400)	Barometric pressure, mm Hg (00025)
10-05-2010	1535	Surface water	Regular	2.4	4.5	5.5	60	--	--
10-07-2010	1700	Surface water	Regular	.70	7.0	6.0	58	--	--
11-02-2010	1120	Surface water	Regular	.70	10.0	4.0	56	--	--
12-10-2010	1030	Surface water	Regular	1.1	3.5	3.8	52	7.6	609
01-04-2011	0955	Surface water	Regular	.93	-9.5	.5	52	--	--
02-14-2011	0950	Surface water	Regular	1.0	4.0	2.0	54	--	--
03-09-2011	1120	Surface water	Regular	.77	9.0	3.3	55	7.6	612

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 2 of 3

[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, unfiltered, % saturation (00301)	Ammonia plus organic nitrogen, water, filtered, mg/L as N (00623)	Ammonia plus organic nitrogen, water, unfiltered, mg/L as N (00625)	Ammonia, water, filtered, mg/L as N (00608)	Ammonia, water, unfiltered, mg/L as N (00610)	Nitrate plus nitrite, water, filtered, mg/L as N (99911)	Nitrate plus nitrite, water, unfiltered, mg/L as N (99910)	Orthophosphate, water, filtered, mg/L as P (00671)
10-05-2010	1535	--	--	.36	2.3	.007	.033	.021	.046	.062
10-07-2010	1700	--	--	.09	.12	.004	.003	.003	.004	.018
11-02-2010	1120	--	--	.04	.09	.003	.004	.003	.003	.011
12-10-2010	1030	10.2	97	.09	.13	.004	.004	.014	.015	.014
01-04-2011	0955	--	--	.07	.08	.004	.005	.014	.015	.012
02-14-2011	0950	--	--	.06	.09	<.003	.004	.015	.016	.012
03-09-2011	1120	10.5	98	.06	.10	.003	.004	.015	.015	.012

WATER-QUALITY DATA
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011

Part 3 of 3

[%, percent; N, nitrogen; P, phosphorus; ft³/s, cubic feet per second; mg/L, milligrams per liter; mm Hg, millimeters of mercury; mm, millimeters; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; --, no data; <, less than]

Date	Sample start time	Orthophosphate, water, unfiltered, mg/L as P (70507)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Iron (biologically reactive), water, filtered, µg/L (63673)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Iron (biologically reactive), water, unfiltered, µg/L (46568)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)
10-05-2010	1535	--	--	.422	173	51	7,970	173	1.1
10-07-2010	1700	.022	.024	.034	73	--	226	5	.01
11-02-2010	1120	.012	.024	.034	67	--	131	2	<.01
12-10-2010	1030	.020	.021	.034	113	--	385	5	.01
01-04-2011	0955	.014	.018	.028	82	--	168	2	.01
02-14-2011	0950	.014	.018	.028	81	--	191	4	.01
03-09-2011	1120	.018	.017	.026	95	--	222	7	.01